Ref	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	21	(US-20030212712-\$ or US-20040031027-\$ or US-20040062130-\$ or	US-PGPUB; USPAT	OR	ON	2005/09/16 18:48
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L2	8	1 and index	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/16 18:48
Ľ3	3489	"alignment algorithm"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 18:52
L5	63	"block swap"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 18:53
L6	1	3 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 18:54
L7	15483	"index value"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 18:54

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L19	2	13 and 16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/16 19:07
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1 Computer science in high school mathematics

Elliott I. Organick, Thomas A. Keenan, Sylviarp Charp, Alexandra Forsythe January 1966 Proceedings of the 1966 21st national conference

window

Full text available: pdf(539.77 KB) Additional Information: full citation, abstract, index terms

In the spring of 1963 an ad hoc Committee on computing chaired by Wallace Givens, and reporting to the Advisory Board of SMSG, presented a number of timely recommendations. The intent of the recommendations was to extend the mathematics program to include topics which can help explain computer organization, operation and use so that students can better relate the mathematics they have learned to the computer-influenced world around them. Many of the recommendations were rec ...

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1 Session 5B: Average case analysis for batched disk scheduling and increasing subsequences

E. Bachmat

May 2002 Proceedings of the thiry-fourth annual ACM symposium on Theory of computing

Full text available: pdf(269.32 KB) Additional Information: full citation, abstract, references, index terms

(MATH) We consider the problem of estimating the tour length and finding approximation algorithms for the asymmetric traveling salesman problem arising from the disk scheduling problem. Given N requests, we show that if the seek function has positive derivative at 0 the tour length is concentrated in probability around the value $C_{f,n}N^{1/2}$ for an explicit constant $C_{f,p}$ dependent on the seek function and the distribution of requests. For linear ...

2 How to design dynamic programming algorithms sans recursion.

window

March 1998 ACM SIGACT News, Volume 29 Issue 1

Additional Information: full citation, abstract, index terms Full text available: pdf(295.65 KB)

We describe a method, which we call the Pruning Method, for designing dynamic programming algorithms that does not require the algorithm designer to be comfortable with recursion.

Bioinformatics (BIO): A seriate coverage filtration approach for homology search Hsiao Ping Lee, Yin Te Tsai, Chuan Yi Tang



March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(162.33 KB) Additional Information: full citation, abstract, references, index terms

The homology search within genomic databases is a fundamental and crucial work in biological knowledge discovery. With exponentially increasing size and access of databases, the issues of efficient retrieval become more essential in bioinformatics. Due to the varieties of biological data, similar sequences are not only under some error tolerance, but are also above some seriate coverage level. In this paper, we propose a seriate coverage filtration approach to extract the homologies from the dat ...

Keywords: homology search, incrementally decreasing covers, longest increasing subsequence problems, lossless filtration, seriate coverage

4 Special section on the MAMA 2001 workshop: Average case analysis for batched disk scheduling and increasing subsequences E. Bachmat



	December 2001 ACM SIGMETRICS Performance Evaluation Review, Volume 29 Issue 3	
	Full text available: pdf(234.98 KB) Additional Information: full citation, references, index terms	
5	EMAGEN: an efficient approach to multiple whole genome alignment Jitender S. Deogun, Jingyi Yang, Fangrui Ma January 2004 Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04 Full text available: pdf(309.96 KB) Additional Information: full citation, abstract, references	
	Following advances in biotechnology, many new whole genome sequences are becoming available every year. A lot of useful information can be derived from the alignment and comparison of different genomes. However, most of the current research focuses on pairwise genome alignment, and only a few available applications can efficiently align multiple genomes. In this paper, we present an efficient approach to align closely related multiple whole genomes, combining suffix arrays, graph theoretic formu	
	Keywords : cocomparability graphs, conserved regions, multiple whole genome alignment, prokaryotic genomes, suffix arrays	
6	Doot parting algorithm for poorly parted lists	
0	Best sorting algorithm for nearly sorted lists Curtis R. Cook, Do Jin Kim November 1980 Communications of the ACM, Volume 23 Issue 11	
	Full text available: pdf(500.64 KB) Additional Information: full citation, abstract, references, citings	
	Consistency control has to be enforced in database management systems (DBMS) where several transactions may concurrently access the database. This control is usually achieved by dividing the database into locking units or granules, and by specifying a locking policy which ensures integrity of the information. However, a drawback of integrity enforcement through locking policies is the degradation of the global system performance. This is mainly due to the restriction imposed by the locking	
	Keywords : Quickersort, Shellsort, heap-sort, insertion sort, merge sort, sorting, sorting effort measures	
7	Subset barrier synchronization on a private-memory parallel system Anja Feldmann, Thomas Gross, David O'Hallaron, Thomas M. Stricker June 1992 Proceedings of the fourth annual ACM symposium on Parallel algorithms and architectures	
	Full text available: pdf(1.18 MB) Additional Information: full citation, references, index terms	
8	On the performance of D-redundant storage systems Eitan Bachmat September 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 2	
	Full text available: pdf(234.80 KB) Additional Information: full citation, references	
9	A principle of algorithm design on limited problem domain Jayadev Misra June 1976 Proceedings of the 13th conference on Design automation	
	Full text available: pdf(384.74 KB) Additional Information: full citation, abstract, references, index terms	
	W-11	

This paper studies the problem of algorithm design on well defined data structures. A general principle is presented which is shown to be useful in designing algorithms which

operate on seque	ences (strings). A gene	ralization of the p	orinciple is pro	esented for	more
general data stru	uctures. Implications of	these results are	discussed.		

10	<u>A</u>	fast	alg	<u>orithm</u>	for	computing	<u>longe</u>	<u>est co</u>	<u>ommon</u>	subsequ	<u>ences</u>
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James W. Hunt, Thomas G. Szymanski

May 1977 Communications of the ACM, Volume 20 Issue 5

Full text available: 🔂 pdf(391.38 KB) Additional Information: full citation, abstract, references, citings

Previously published algorithms for finding the longest common subsequence of two sequences of length n have had a best-case running time of O(n2). An algorithm for this problem is presented which has a running time of $O((r + n) \log n)$, where r is the total number of ordered pairs of positions at which the two sequences match. Thus in the worst case the algorithm has a running time of O(n2 log n). However, for those applications where most positions ...

Keywords: efficient algorithms, longest common subsequence

11 On the complexity of computing the measure of $\bigcup [a_i, b_i]$

Michael L. Fredman, Bruce Weide

July 1978 Communications of the ACM, Volume 21 Issue 7

Full text available: pdf(499.23 KB)

Additional Information: full citation, abstract, references, citings, index terms

The decision tree complexity of computing the measure of the union of n (possibly overlapping) intervals is shown to be &OHgr; (n log n), even if comparisons between linear functions of the interval endpoints are allowed. The existence of an &OHgr;(n log n) lower bound to determine whether any two of n real numbers are within ∈ of each other is also demonstrated. These problems provide an excellent opportunity for discussing the effects of the computational model on the ease of analysis ...

Keywords: analysis of algorithms, combinatorial problems, computational complexity, computational models, computational problems, decision tree programs, lower bounds

12 The Complexity of Some Problems on Subsequences and Supersequences

David Maier

April 1978 Journal of the ACM (JACM), Volume 25 Issue 2

Full text available: pdf(861.44 KB) Additional Information: full citation, references, citings, index terms

13 An O(n log n) algorithm for the maximum agreement subtree problem for binary trees

Richard Cole, Ramesh Hariharan

January 1996 Proceedings of the seventh annual ACM-SIAM symposium on Discrete algorithms

Full text available: pdf(1.03 MB)

Additional Information: full citation, references, citings, index terms

¹⁴ Maximum k-chains in planar point sets: combinatorial structure and algorithms Stefan Felsner, Lorenz Wernisch

June 1993 Proceedings of the twenty-fifth annual ACM symposium on Theory of computing

Full text available: 🔂 pdf(760.00 KB) Additional Information: full citation, references, index terms

Good splitters for counting points in triangles

1	Matc	ušek.	_	احام۱۸۸
J. 1	ויומנט	Jusek.	┏.	WEIZI

June 1989 Proceedings of the fifth annual symposium on Computational geometry

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(653.71 KB) terms

A set A of n points in the plane has to be stored in such a way that for any query triangle t the number of points of A inside t can be computed efficiently. For this problem a solution is presented with &Ogr;(√n log n) query time, &Ogr; (n log n) space and &Ogr;(n

16 Algorithms on Stings, Trees, and Sequences: Computer Science and Computational

Biology

Dan Gusfield

December 1997 ACM SIGACT News, Volume 28 Issue 4

Full text available: pdf(1.20 MB) Additional Information: full_citation

17 A work-optimal CGM algorithm for the LIS problem

Garcia Thierry, Myoupo Jean-Frédéric, Semé David

July 2001 Proceedings of the thirteenth annual ACM symposium on Parallel algorithms and architectures

Additional Information: full citation, abstract, index terms

This paper presents a work-optimal CGM algorithm that solves the Longest Increasing Subsequence Problem. It can be implemented in the CGM with P processors in $O(N2 \div P)$ time and O(P) communication steps. It is the first CGM algorithm for this problem and it is work-optimal since the sequential algorithm has a complexity of $O(N^2)$.

18 An O(n) algorithm for determining a near-optimal computation order of matrix chain products

Francis Y. Chin

July 1978 Communications of the ACM, Volume 21 Issue 7

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(575.28 KB) terms

This paper discusses the computation of matrix chain products of the form M1 \times M22 \times ... × Mn where Mi's are matrices. The order in which the matrices are computed affects the number of operations. A sufficient condition about the association of the matrices in the optimal order is presented. An

Keywords: approximate algorithm, heuristic algorithm, matrix chain product, matrix multiplication

¹⁹ Spot-checkers

Funda Ergün, Sampath Kannan, S. Ravi Kumar, Ronitt Rubinfeld, Mahesh Viswanathan May 1998 Proceedings of the thirtieth annual ACM symposium on Theory of computing

Full text available: pdf(1.33 MB) Additional Information: full citation, references, citings, index terms

²⁰ On the general graph embedding problem with applications to circuit layout Jonathan S. Turner

January 1984 ACM SIGACT News, Volume 16 Issue 1

Full text available: pdf(63.39 KB) Additional Information: full citation, abstract

This paper addresses a class of graph embeding problems in which the object is to map the vertices of one graph to the vertices of another, so that the images of vertices that are adjacent in the <u>source graph</u> are close together in the <u>target graph.</u> An

important special case is the bandwidth minimization problem in which the target graph is a simple line graph. In a previous paper, this author showed that for random graphs having bandwidth at most < u > k & ...

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1 Compilation: Mapping reference code to irregular DSPs within the retargetable. optimizing compiler COGEN(T)



Gary William Gréwal, Charles Thomas Wilson

December 2001 Proceedings of the 34th annual ACM/IEEE international symposium on Microarchitecture

Publisher Site

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings

Generating high quality code for embedded processors is made difficult by irregular architectures and highly encoded parallel instructions. Rather than deal with the target machine at every stage of the compilation, a promising new methodology employs generic algorithms to optimize code for an idealized abstraction of the true target machine. This code, called reference code, is then mapped to the real instruction set by enhanced genetic algorithms. One perturbs the original schedule to find a n ...

² Mimic: a fast system/370 simulator

C. Mav

July 1987 ACM SIGPLAN Notices, Papers of the Symposium on Interpreters and interpretive techniques, Volume 22 Issue 7

Full text available: pdf(1.16 MB)

Additional Information: full citation, abstract, citings, index terms

Software simulation of one computer on another tends to be slow. Traditional simulators typically execute about 100 instructions on the host machine per instruction simulated. Newer simulators reduce the expansion factor to about 10, by saving and reusing translations of individual instructions. This paper describes an experimental simulator which takes the progression one step further, translating groups of instructions as a unit. This approach, combined with flow analysis, reduces the expansio ...

3 MPEG-4: an object-based multimedia coding standard supporting mobile applications Atul Puri, Alexandros Eleftheriadis



June 1998 Mobile Networks and Applications, Volume 3 Issue 1

Full text available: pdf(747.80 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

A history of the SNOBOL programming languages

Ralph E. Griswold

January 1978 ACM SIGPLAN Notices, The first ACM SIGPLAN conference on History of programming languages, Volume 13 Issue 8

Full text available: pdf(3.56 MB)

Additional Information: full citation, abstract, references, index terms

Development of the SNOBOL language began in 1962. It was followed by SNOBOL2, SNOBOL3, and SNOBOL4. Except for SNOBOL2 and SNOBOL3 (which were closely related), the others differ substantially and hence are more properly considered separate languages than versions of one language. In this paper historical emphasis is placed on the original language, SNOBOL, although important aspects of the subsequent languages are covered.

⁵ A multiple processor data flow machine that supports generalized procedures Arvind, Vinod Kathail

May 1981 Proceedings of the 8th annual symposium on Computer Architecture

Full text available: pdf(725.88 KB)

Additional Information: full citation, abstract, references, citings, index terms

Programs for data flow machines are written in functional languages, some of which require efficient support for dynamic procedure invocation to achieve high performance and programming flexibility. Among the proposed data flow machines, few support procedures in any generality. Our machine, which is a hardware realization of the U-interpreter for data flow languages, provides support for a variety of procedure calling conventions. Because the U-interpreter assigns a unique activity name to ...

⁶ Mobile objects in distributed Oz

Peter Van Roy, Seif Haridi, Per Brand, Gert Smolka, Michael Mehl, Ralf Scheidhauer September 1997 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 19 Issue 5

Full text available: pdf(484.83 KB)

Additional Information: full citation, abstract, references, citings, index terms

Some of the most difficult questions to answer when designing a distributed application are related to mobility: what information to transfer between sites and when and how to transfer it. Network-transparent distribution, the property that a program's behavior is independent of how it is partitioned among sites, does not directly address these questions. Therefore we propose to extend all language entities with a network behavior that enables efficient distributed programm ...

Keywords: latency tolerance, mobile objects, network transparency

7 Self-regulation of workload in the Manchester Data-Flow computer

John R. Gurd, David F. Snelling

December 1995 Proceedings of the 28th annual international symposium on Microarchitecture

Full text available: pdf(1.29 MB) Additional Information: full citation, references, index terms

8 Evaluation of compiler optimizations for Fortran D on MIMD distributed memory

Seema Hiranandani, Ken Kennedy, Chau-Wen Tseng

August 1992 Proceedings of the 6th international conference on Supercomputing

Full text available: pdf(1.74 MB)

Additional Information: full citation, abstract, references, citings, index terms

The Fortran D compiler uses data decomposition specifications to automatically translate Fortran programs for execution on MIMD distributed-memory machines. This paper introduces and classifies a number of advanced optimizations needed to achieve acceptable performance; they are analyzed and empirically evaluated for stencil computations.

Profitability formulas are derived for each optimization. Results show that exploiting parallelism for pipelined computations, reductions, and scans is vi ...

9 Prototyping Fortran-90 compilers for massively parallel machines

Marina Chen, James Cowie

July 1992 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1992 conference on Programming language design and implementation, Volume 27 Issue 7

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings, index

Massively parallel architectures, and the languages used to program them, are among both the most difficult and the most rapidly-changing subjects for compilation. This has created a demand for new compiler prototyping technologies that allow novel style of compilation and optimization to be tested in a reasonable amount of time. Using formal specification techniques, we have produced a data-parallel Fortran-90 subset compiler for Thinking Machines' Connection Machine/2 and Conne ...

10 Locality phase prediction

Xipeng Shen, Yutao Zhong, Chen Ding

October 2004 Proceedings of the 11th international conference on Architectural support for programming languages and operating systems, Volume 38, 39, 32 Issue 5, 11, 5

Full text available: pdf(739.91 KB) Additional Information: full citation, abstract, references, index terms

As computer memory hierarchy becomes adaptive, its performance increasingly depends on forecasting the dynamic program locality. This paper presents a method that predicts the locality phases of a program by a combination of locality profiling and run-time prediction. By profiling a training input, it identifies locality phases by sifting through all accesses to all data elements using variable-distance sampling, wavelet filtering, and optimal phase partitioning. It then constructs a phase hiera ...

Keywords: dynamic optimization, locality analysis and optimization, phase hierarchy, program phase analysis and prediction, reconfigurable architecture

11 Automatic array alignment in data-parallel programs

Siddhartha Chatterjee, John R. Gilbert, Robert Schreiber, Shang-Hua Teng March 1993 Proceedings of the 20th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Full text available: pdf(1.34 MB)

Additional Information: full citation, abstract, references, citings, index terms

Data-parallel languages like Fortran 90 express parallelism in the form of operations on data aggregates such as arrays. Misalignment of the operands of an array operation can reduce program performance on a distributed-memory parallel machine by requiring nonlocal data accesses. Determining array alignments that reduce communication is therefore a key issue in compiling such languages. We present a framework for the automatic determination of array alignments in data-parallel la ...

12 Novel ideas: A design space evaluation of grid processor architectures

Ramadass Nagarajan, Karthikeyan Sankaralingam, Doug Burger, Stephen W. Keckler December 2001 Proceedings of the 34th annual ACM/IEEE international symposium on **Microarchitecture**

Publisher Site

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references, citings

In this paper, we survey the design space of a new class of architectures called Grid Processor Architectures (GPAs). These architectures are designed to scale with technology, allowing faster clock rates than conventional architectures while providing superior instruction-level parallelism on traditional workloads and high performance across a range of application classes. A GPA consists of an array of ALUs, each with limited control,

connected by a thin operand network. Programs are executed b ...

13 MEDEA workshop: An EGA approach to the compile-time assignment of data to multiple memories in digital-signal processors



Gary Gréwal, Tom Wilson, Andrew Morton

March 2003 ACM SIGARCH Computer Architecture News, Volume 31 Issue 1

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, index terms

In this paper, we present a methodology, based on an Enhanced Genetic Algorithm (EGA), for assigning data objects to dual-bank memories. Our approach is global, and special effort is made to identify those objects that could potentially benefit from an assignment to a specific memory, or perhaps duplication in both memories. The enhancements to the genetic algorithm include a directed mutation operator and a new type of elitism. Together, these enhancements improve the performance of the genetic ...

14 Extend: a library-based, hierarchical, multi-domain modeling system



Bob Diamond

December 1993 Proceedings of the 25th conference on Winter simulation

Full text available: pdf(811.39 KB) Additional Information: full citation, references, citings

15 The Dynamic Incremental Compiler of APL\3000



Ronald L. Johnston

May 1979 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: part 1, Volume 9 Issue 4

Full text available: pdf(462.40 KB)

Additional Information: full citation, abstract, references, citings, index terms

Most APL implementations to date have been interpretive because of the dynamic nature of the language. APL\3000 employs a Dynamic Incremental Compiler to allow all the flexibility of change afforded by interpretation, but giving the added bonus of faster execution for programs run more than once. APL\3000 compiles code on a statement-by-statement basis as needed, saving the code and reusing it where possible. A statement is recompiled only when made necessary by changes in syntax or changes ...

¹⁶ Columns: Risks to the public in computers and related systems



Peter G. Neumann

March 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 2

Full text available: pdf(1.54 MB)

Additional Information: full citation

17 Dynamic data distribution with control flow analysis



Jordi Garcia, Eduard Ayguade, Jesus Labarta

November 1996 Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00

Full text available: html(44.21 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design of a data distribution tool which automatically derives the data mapping for the arrays and the parallelization strategy for the loops in a Fortran 77 program. The layout generated can be static or dynamic, and the distribution is onedimensional BLOCK or CYCLIC. The tool takes into account the control flow statements in the code in order to better estimate the behavior of the program. All the information regarding data movement and parallelism is contained i ...

18 A parallel pipelined processor with conditional instruction execution



Rod Adams, Gordon Steven

March 1991 ACM SIGARCH Computer Architecture News, Volume 19 Issue 1

Full text available: pdf(602.87 KB) Additional Information: full citation, abstract, index terms

In a recent paper by Smith, Lam and Horowitz [1] the concept of 'boosting' was introduced, where instructions from one of the possible instruction streams following a conditional branch were scheduled by the compiler for execution in the basic block containing the branch itself. This paper describes how code from both instruction streams following a conditional branch can be considered for execution in the basic block containing the branch. Branch conditions are stored in Boolean registers and a ...

19 Recency-based TLB preloading

Ashley Saulsbury, Fredrik Dahlgren, Per Stenström

May 2000 ACM SIGARCH Computer Architecture News, Proceedings of the 27th annual international symposium on Computer architecture, Volume 28 Issue 2

Full text available: pdf(651.05 KB)

Additional Information: full citation, abstract, references, citings, index

Caching and other latency tolerating techniques have been quite successful in maintaining high memory system performance for general purpose processors. However, TLB misses have become a serious bottleneck as working sets are growing beyond the capacity of TLBs. This work presents one of the first attempts to hide TLB miss latency by using preloading techniques. We present results for traditional next-page TLB miss preloading - an approach shown to cut so ...

²⁰ Technical contributions: "Structured programming" considered harmful

Paul Abrahams

April 1975 ACM SIGPLAN Notices, Volume 10 Issue 4

Full text available: pdf(948.53 KB) Additional Information: full citation, references, citings

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Relevance scale

²¹ A high-speed message-driven communication architecture

window

J. Peterson, E. Chow, H. Madan

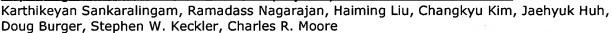
June 1988 Proceedings of the 2nd international conference on Supercomputing

Full text available: pdf(1.27 MB)

Additional Information: full citation, abstract, references, citings, index terms

The performance of a message-passing multiple instruction multiple data (MIMD) concurrent computer depends in large part on the communication processing overhead. A high-speed communication architecture is proposed for a hypercube-type supercomputer to attain the specific goals of message-driven processing. These goals include: direct hardware execution of messages, queueing of messages (using various paradigms), adaptive message routing, and special local registers for fast context ...

²² Exploiting ILP, TLP, and DLP with the polymorphous TRIPS architecture



May 2003 ACM SIGARCH Computer Architecture News, Proceedings of the 30th annual international symposium on Computer architecture, Volume 31 Issue 2

Full text available: 📆 pdf(219.05 KB) Additional Information: full citation, abstract, references, citings

This paper describes the polymorphous TRIPS architecture which can be configured for different granularities and types of parallelism. TRIPS contains mechanisms that enable the processing cores and the on-chip memory system to be configured and combined in different modes for instruction, data, or thread-level parallelism. To adapt to small and large-grain concurrency, the TRIPS architecture contains four out-of-order, 16-wide-issue Grid Processor cores, which can be partitioned when easi ...

23 Performance of the CRAY T3E multiprocessor

Ed Anderson, Jeff Brooks, Charles Grassl, Steve Scott

November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)

Full text available: pdf(89.00 KB) Additional Information: full citation, abstract, references, citings

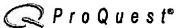
The CRAY T3E is a scalable shared-memory multiprocessor based on the DEC Alpha 21164 microprocessor. The system includes a number of novel architectural features designed to tolerate latency, enhance scalability, and deliver high performance on scientific and engineering codes. Included among these are stream buffers, which detect and prefetch down small-stride reference streams, E-registers, which provide latency hiding and nonunit-stride access capabilities, barrier and fetch an ...

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Volume 2, 5-9 Sept. 1994 Page(s):1171 - 1175 vol.2 Digital Object Identifier 10.1109/IECON.1994.397957

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Industrial Electronics, Control and Instrumentation, 1994. IECON '94., 20th International

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